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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/019,342
				Filing Date	12/21/2001
				First Named Inventor	Richard S. Judson
				Art Unit	1631
				Examiner Name	Marianne P. Allen
Sheet	1	of	1	Attorney Docket Number	
(Use as many sheets as necessary)					

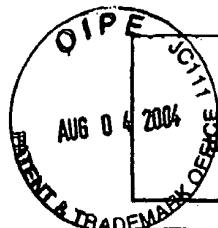
NON-PATENT LITERATURE DOCUMENTS

Examiner Signature	<i>M. Miller</i>	Date Considered	18/15/04
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FORM PTO-1449 INFORMATION DISCLOSURE CITATION		Attorney Docket: 2458-4042USS	Serial No.: 10/019,342
		Applicant: DENTON, et al.	
		Filing Date: December 21, 2001	Group Art Unit: TBA 1631

MPA	5,972,604	10/26/1999	Santamaría et al			
	5,858,659	01/12/1999	Sapolsky et al.			
	5,187,775	2/16/1993	Schroeder et al.			
	5,867,402	2/2/1999	Schnelder et al.			
	6,023,659	2/8/2000	Sellhamer et al.			
	5,096,557	03/17/1992	Simons			
	5,192,659	03/09/1993	Simons			
	5,612,179	03/18/1997	Simons			
	5,789,568	08/04/1998	Simons			
	5,851,762	12/22/1998	Simons			
	5,724,253	3/3/1998	Skovira			
	5,834,189	11/10/1998	Stevens et al.			
	5,618,672	4/8/1997	Šindola et al.			
	5,885,776	03/23/1999	Stone et al.			
	5,502,773	3/26/1996	Tibbets et al.			

FOREIGN PATENT DOCUMENTS						
Examiner Initial	Patent Number	Publication Date	Country	Class	Sub-Class	Translation
MPA	WO 87/02802	5/7/1987	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
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<i>MRA</i>	EP 0408188A2	1/16/1991	EP	<input type="checkbox"/> Yes <input type="checkbox"/> No
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	EP 0481286B1	4/9/1997	EP	<input type="checkbox"/> Yes <input type="checkbox"/> No
	EP 0494907B1	5/15/1996	EP	<input type="checkbox"/> Yes <input type="checkbox"/> No
	EP 0612846A1	8/31/1994	EP	<input type="checkbox"/> Yes <input type="checkbox"/> No
	EP 0612846B1	8/16/2000	EP	<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>V</i>	EP 0673523B1	2/10/1999	EP	<input type="checkbox"/> Yes <input type="checkbox"/> No
	EP 0812922A2	12/17/1997	EP	<input type="checkbox"/> Yes <input type="checkbox"/> No

<i>MRA</i>	<u>Beaudet, Arthur L., "1998 ASHG Presidential Address - Making Genomic Medicine a Reality", American Journal of Human Genetics, Vol. 64, pp. 1-13, 1999.</u>		
	<u>Carter et al., "Genetic Control of Drug-Induced Recovery from Murine Visceral Leishmaniasis", J. Pharm. Pharmacol. 1994, 45:795-798</u>		
	<u>Cashman, Siobhan M. et al., "The Irish Cystic Fibrosis Database", Journal of Medical Genetics, Vol. 32, pp. 972-975, July 1995.</u>		
	<u>Chakraborty, R. "A Class of Population Genetic Questions Formulated as the Generalized Occupancy Problem", Genetics, July 1993, 134:933-938</u>		
	<u>Chiano et al., "Fine Genetic Mapping Using Haplotype Analysis and the Missing Data Problem", Ann. Hum. Genet., 1998, 62:55-60.</u>		
	<u>Clark, Andrew G. et al., "Haplotype Structure and Population Genetic Inferences From Nucleotide-Sequence Variation in Human Lipoprotein Lipase", American Journal of Human Genetics, Vol. 63, pp. 595-612, 1998.</u>		
	<u>Clark, Andrew G., "Inference of Haplotypes from PCR-amplified Samples of Diploid Populations", Mol. Biol. Evol., 7(2):111-122, 1990</u>		
	<u>Cooper, Gillian et al., "Network Analysis of Human Y Microsatellite Haplotypes", Human Molecular Genetics, Vol. 5, No. 11, pp. 1759-1766, 1996.</u>		
	<u>Dempster et al., "Maximum Likelihood from Incomplete Data via the EM Algorithm", J. Statistical Society, Vol. 39, No. 1, pp.1-38, 1977</u>		
	<u>Drefus et al. "Etude des Reactions Croisees des Antigènes HLA A et B Chez 63 Patients Atteints de Polyarthrite Rhumatoide", Revue du Rhumatisme, 1984, 51(4), 197-202</u>		
	<u>Drysdale, "Complex promoter and coding region beta 2-adrenergic receptor haplotypes alter receptor expression and predict in vivo responsiveness", 2000, Proc. Natl. Acad. Sci. 97(19):10483-8</u>		
	<u>Excoffier et al., "Incorporating Genotypes of Relatives into a Test of Linkage Disequilibrium", Am. J. Hum. Genet., 62:171-180, 1998</u>		
	<u>Excoffier et al. "Maximum-Likelihood Estimation of Molecular Haplotype Frequencies in a Diploid Populations", Mol. Biol. Evol., 1995, 12(5):921-927.</u>		
<i>V</i>	<u>Fisher, Lloyd D. et al., "Biostatistics: A Methodology for the Health Sciences", pp. 345-495, 692-762, John Wiley & Sons, Inc.</u>		

Examiner <i>mp allan</i>	Date Considered <i>8/1/15/04</i>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	

776325 v1

FORM PTO-1449 INFORMATION DISCLOSURE CITATION	Attorney Docket: 2458-4042US5 Serial No.: 10/019,342
	Applicant: DENTON, et al. Filing Date: December 21, 2001
	Group Art Unit: TBA 163

OTHER DOCUMENTS	
<i>MPA</i>	Gene et al., "Haplotype Frequencies of Eight Y-chromosome STR loci in Barcelona (North-East Spain)", <i>International Journal of Legal Medicine</i> , Vol. 112, pp. 403-405, 1999.
	Hartl, Daniel L. et al., "Genetic and Phenotypic Variation", <i>Principles of Population Genetics</i> , pp. 37-109, Sinauer Associates, Inc., 3 ed.
	Hawley et al., "HAPLO: A Program Using the EM Algorithm to Estimate the Frequencies of Multi-site Haplotypes", <i>J. of Heredity</i> , 86(5), pp. 409-411, 1995
	Hill et al., "Human Genetic Variation and Its Impact on Public Health and Medicine", pp. 62-74
	Hill, "Tests for Association of Gene Frequencies at Several LOCI in Random Mating Diploid Populations", <i>Biometrics</i> , 31, 881-888, 1975
	Hoang, Liem et al., "PAH Mutation Analysis Consortium Database: A Database for Disease-Producing and Other Allelic Variation at the Human PAH Locus", <i>Nucleic Acids Research</i> , Vol. 24, No. 1, pp. 127-131, 1996.
	Jackson et al., "Pharmacokinetic-Pharmacogenetic Modelling in the Detection of Polymorphisms in Xenobiotic Metabolism", 1990, <i>Ann. Occup. Hyg.</i> 34(6):653-662
	Judson et al., "The Predictive Power of Haplotypes in Clinical Response", 2000, pp. 1-12
	Judson, Richard, "Genetic Algorithms and Their Use in Chemistry", <i>Reviews in Computational Chemistry</i> , Vol. 10, pp. 1-66, 1997
	Kalow et al., "The Science of Pharmacological Variability: An essay", <i>Clin. Pharma. & Therapeutics</i> , Vol. 66, No. 5, pp. 445-447, 1999
	Kardia et al., "An Evolutionary Perspective on the Generic Architecture of Susceptibility to Cardiovascular Disease", pp. 231-245
	Kleyn, Patrick W. et al., "Genetic Variation as a Guide to Drug Development", <i>Science</i> , Vol. 281, pp. 1820-1821, September 18, 1998.
	Kwok et al., "Single Nucleotide Polymorphism Libraries: Why and How are We Building Them?", <i>Mol. Med. Today</i> , 1999, Vol. 5, pp. 538-543
	Layton et al., "The Therapeutic Response to D-Pencillamine in Rheumatoid Arthritis: Influence of Glutathione S-transferase Polymorphisms", <i>Rheumatology</i> , 1999, 38:43-47
	Long et al., "An E-M Algorithm and Testing Strategy for Multiple-Locus Haplotypes", <i>Am. J. Hum. Genet.</i> , 56:799-810, 1995
	MacLean et al., "Estimation of Myriad Haplotype Frequencies", <i>Genetic Epidemiology</i> , 2:263-272, 1985
	Magon, "Pharmacogenetic interactions in G6PD deficiency and development of an in vitro test to predict a drug's hemolytic potential", 1981, <i>Prog. Clin. Biol. Res.</i> , 55:709-24
	Matise, T.C., "Genome Scanning for Complex Disease Genes Using the Transmission / Disequilibrium Test and Haplotype-based Haplotype Relative Risk", <i>Genetic Epidemiology</i> , Vol. 12, pp. 641-645, 1995.
	Meyer, Urs A., "Medically Relevant Genetic Variation of Drug Effects", pp. 41-49
	Michalatos-Beloin et al., "Molecular Haplotyping of Genetic Markers 10 kb Apart by Allele-Specific Long Range PCR", <i>Nucleic Acids Research</i> , 1996, 24(23):4841-4843.
	Mori, Motomi et al., "Computer Program to Predict Likelihood of Finding an HLA-Matched Donor: Methodology, Validation, and Application", <i>Biology of Blood and Marrow Transplantation</i> , Vol. 2, pp. 134-144, October 1996.
	Mori, Motomi et al., "HLA Gene and Haplotype Frequencies in the North American Population", <i>Transplantation</i> , Vol. 64, No. 7, pp. 1017-1027, October 15, 1997.
	Neuman et al., "A Bit about Haplotypes: Using Binary Digits to Code Tightly Linked Loci", <i>Hum. Hered.</i> , 1994 44:241-247
	Niu et al., "Bayesian Haplotype Inference for Multiple Linked Single-Nucleotide Polymorphisms", <i>Am. J. Hum. Genet.</i> , 2002, 70:157-169

Examiner	<i>MP Allen</i>
	Date Considered
11/15/04	
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OTHER DOCUMENTS (Include all other relevant references)		
MPA	Olscn et al., "Design and Sample-Size Considerations in the Detection of Linkage Disequilibrium with a Disease Locus", Am. J. Hum. Genet. 1994, 55:574-580	
	Perlin, Mark et al., "Toward Fully Automated Genotyping: Allele Assignment, Pedigree Construction, Phase Determination, and Recombination Detection in Duchenne Muscular Dystrophy". American Journal of Human Genetics, Vol. 55, pp. 777-787, June 1994.	
	Press, William H. et al., "Numerical Recipes in C: The Art of Scientific Computing", pp. 394-455, Cambridge University Press, 2 ed.	
	Rich, Elaine et al., "Artificial Intelligence", pp. 514-519, McGraw-Hill, Inc., 2 ed.	
	Ruano et al. "Haplotype of Multiple Polymorphisms Resolved by Enzymatic Amplification of Single DNA Molecules", August 1990, Proc. Natl. Acad. Sci., Vol. 87, pp. 6296-6300	
	R & D Directions Staff, "Beyond Genomics", R & D Directions, April 1999 pp. 40-44	
	Slackin et al., "Testing for Linkage Disequilibrium in Genotypic Data Using the Expectation-Maximization Algorithm", Heredity, 76:377-383, 1996	
	Staessen et al., "M235T Angiotensinogen Gene Polymorphism And Cardiovascular Renal Risk", J. Hypertension, January 1999, 17(1):9-17.	
	J.C. Stephens et al., "Haplotype Variation and Linkage Disequilibrium in 313 Human Genes", Science, 2001	
	Stephens, J. Claiborne, "Single-nucleotide Polymorphisms, Haplotypes, and Their Relevance to Pharmacogenetics", Molecular Diagnosis, Vol. 4, No. 4, pp. 309-317, December 1999.	
	Stephens et al., "A New Statistical Method for Haplotype Reconstruction from Population Data", Am. J. Hum. Genet., 2001, 68:978-989	
	Thayer, Ann M., "Bioinformatics for the Masses", C&EN, 19-32, 2000	
	Tishkoff S. A. et al., "The Accuracy of Statistical Methods for Estimation of Haplotype Frequencies: An Example from the CD4 Locus", American Journal of Human Genetics, Vol 67, pp. 518-522, August 2000.	
	Appelby, "Pharmaceutical Labs Exploring Drugs Tailored to Ethnicity, DNA", January 24, 1999, Las Vegas Review - Journal, Section A, p. 26A.	
	Birt, "Drugs Industry Predicted to Be 'Microsoft' For the New Millennium", June 1, 1998, Birmingham Post, pg. 29	
	"Bursting with Innovation", December 1997, Med Ad News,	
	Craig, "Answers for the Toughest Challenges", April 19, 1999; Forbes, Supplement; Special Advertising Section; Biotechnology, page 2.	
	Debare, "California Spotlight: Incyte plans to conquer DNA mapping within year; Genetics: Part of the plan is to purchase British firm Hexagen for \$4.1 million", August 23, 1998, The Orange County Register, pg. K01.	
	Furuta, "Race to Unlock Genetic Secrets Heats Up in Japan's Laboratories: Analysis of Genes Could Help Create Tailor-Made Medicines", November 16, 1998, The Nikkei Weekly, pg. 1	
	"Genaissance Raises \$10 Million in Private Placement; Accelerates Development of Personalized Medicine Through Pharmacogenomics", August 27, 1998; PR Newswire, Financial News Section	
	MacGregor, "Delay is Half The Cure: Nova's Merger With U.S. Firm Steps Up Research Aimed at Postponing Alzheimer's Until It No Longer Matters", March 10, 1999, The Gazette (Montreal), Section D1.	
	"Mix/Match Analysis of Gene Diversity in Ethnic Cross-Section Aims at Personalized Medicine", 2001, Bioworld Today, p. 5	
	Regalado, "Inventing the Pharmacogenomics Business, Part I", September 1997, In Vivo the Business & Medicine Report, p. 52.	
	Sadée, Wolfgang, "Using Genetic Information to Optimize Drug Therapy", Medscape Pharmacotherapy, 2000	
	"Terrapin and Genaissance Establish Research and Development Collaboration Targeting Drug Candidates Based on Estrogen Receptor Modulators Identified in Genomics Research", February 12, 1998, Business Wire	

Examiner	<i>MP Allen</i>	Date Considered	<i>11/15/04</i>
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SEARCHED DOCUMENTS	
<i>MPA</i>	The Genesis Group, "Will Pharmacogenomics Create a \$2 Billion Market?", July 1998, Genesis Report, 8(1); pg 26; 1061-2289
	"Valigon Acquires Berlin-Based Infogen and Phenotype Database", 2000, Worldwide Biotech
	"Variagenics, Inc. Acquires Exclusive Rights To Leading Pharmacogenomic Technologies for Neurological Disorders", February 8, 1999, Canada Newswire
	Yasuhara, "Ethnic factors in evaluation of drug efficacy and safety", August 1994, Nippon Yakurigaku Zasshi, 102(2): 67-78 (English Abstract)
▼	Text of April 17, 2001 press release re: Classen patent No. 6,219,674

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